

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/04517

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N5/00 G06F15/80 C03C17/34 C03C17/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N G06F C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, MEDLINE, BIOSIS, CHEM ABS Data, EMBASE, SCISEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 5 510 628 A (GEORGER JR JACQUE H ET AL) 23 April 1996 (1996-04-23)</p> <p>column 1, line 35 - line 40 column 3, line 47 -column 4, line 27 column 5, line 31 - line 45 column 6, line 6 -column 7, line 52 column 10, line 43 -column 11, line 30 column 12, line 43 -column 15, line 33 claims 1-10,19-23</p> <p style="text-align: center;">--- -/--</p>	<p>1-4,13, 25,26, 30-33, 39,52, 53,57, 69-73</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

12 July 2000

Date of mailing of the international search report

25/07/2000

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PCT/EP 00/04517

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 402 718 A (KANEKAFUCHI CHEMICAL IND) 19 December 1990 (1990-12-19) the whole document	1-4, 8-10, 13-15, 21,22, 30-33, 39-41, 47,48, 52,53, 57-59, 65,66, 72,73
X	EP 0 887 667 A (SHARP KK) 30 December 1998 (1998-12-30) column 2, line 26 - line 54 column 5, line 40 - line 42 claims 1,7-16,19,20,22	30,32-34
X	US 3 864 021 A (KATAGIRI YOSHIO ET AL) 4 February 1975 (1975-02-04) the whole document	30,32,33
A	YASUHIKO JIMBO ET AL: "ELECTRICAL STIMULATION OF CULTURED NEURAL CELLS BY PLANAR ELECTRODE ARRAY" PROCEEDINGS OF THE ANNUAL CONFERENCE OF THE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY,US,NEW YORK, IEEE, vol. CONF. 12, page 1741-1742 XP000239375 the whole document	1-73
A	YASUHIKO KIMBO ET AL: "SIMULTANEOUS MEASUREMENT OF INTRACELLULAR CALCIUM AND ELECTRICAL ACTIVITY FROM PATTERNED NEURAL NETWORKS IN CULTURE" IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING,US,IEEE INC. NEW YORK, vol. 40, no. 8, page 804-810 XP000418557 ISSN: 0018-9294 the whole document	1-73
A	PATENT ABSTRACTS OF JAPAN vol. 0185, no. 22, 30 September 1994 (1994-09-30) & JP 06 180455 A (SONY CORP), 28 June 1994 (1994-06-28) abstract	1-12, 30-35

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KLEINFELD D ET AL: "Controlled outgrowth of dissociated neurons on patterned substrates"</p> <p>J NEUROSCI, vol. 8, no. 11, 1988; pages 4098-4120, XP000915297 the whole document -----</p>	<p>1,2,13, 19,20, 30,31, 39,45, 46,52, 57,63,64</p>

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Information on patent family members

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